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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known	
		Application Number	10/634,174
		Filing Date	August 5, 2003
		First Named Inventor	Forbes, Leonard
		Group Art Unit	2823
		Examiner Name	Garcia, Joannie
Sheet 1 of 5		Attorney Docket No: 1303.102US1	



US PATENT DOCUMENTS						
Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	Filing Date If Appropriate
JAG	US-2002/0062782	05/30/2002	Norris, D. J., et al.	117	3	09/06/2001
JAG	US-2002/0048968	04/25/2002	Ahn, Kie Y.	438	778	07/20/2001
JAG	US-2002/0070419	06/13/2002	Farrar, Paul A., et al.	257	503	08/29/2001
JAG	US-2002/0076896	06/20/2002	Farrar, Paul A., et al.	438	401	12/15/2000
JAG	US-2002/0079557	06/27/2002	Ahn, Kie Y., et al.	257	632	02/26/2002
JAG	US-2002/0158322	10/31/2002	Farrar, Paul A.	257	678	06/27/2002
JAG	US-2002/0163044	11/07/2002	Farrar, Paul A.	257	355	06/27/2002
JAG	US-2002/0163045	11/07/2002	Farrar, Paul A.	257	355	06/27/2002
JAG	US-2002/0164859	11/07/2002	Farrar, Paul A.	438	296	06/27/2002
JAG	US-2003/0042627	03/06/2003	Farrar, Paul A., et al.	257	503	10/22/2003
JAG	US-2003/0157780	08/21/2003	Farrar, Paul A., et al.	438	401	02/10/2003
JAG	US-2003/0193088	10/16/2003	Hall, Frank L.	257	713	04/15/2002
JAG	US-2003/0197234	10/23/2003	Farrar, Paul A.	257	424	05/08/2003
JAG	US-5,234,535	08/10/1993	Beyer, Klaus D., et al.	156	630	12/10/1992
JAG	US-5,441,591	08/15/1995	Imthurn, George P., et al.	156	153	06/07/1993
JAG	US-5,487,999	01/30/1996	Farnworth, Warren M.	216	18	11/22/1994
JAG	US-5,656,886	08/12/1997	Westphal, Michael J., et al.	313	495	12/29/1995
JAG	US-5,773,152	06/30/1998	Okonogi, Kensuke	428	446	10/13/1995
JAG	US-5,789,859	08/04/1998	Watkins, Charles M., et al.	313	495	11/25/1996
JAG	US-5,926,740	07/20/1999	Forbes, Leonard , et al.	438	763	10/27/1997
JAG	US-5,997,378	12/07/1999	Dynka, Danny , et al.	445	25	07/29/1998
JAG	US-6,028,436	02/22/2000	Akram, Salman , et al.	324	755	12/02/1997
JAG	US-6,049,106	04/11/2000	Forbes, Leonard			01/14/1999
JAG	US-6,054,808	04/25/2000	Watkins, Charles M., et al.	313	495	01/26/1999
JAG	US-6,077,792	06/20/2000	Farrar, Paul A.	438	780	07/14/1997
JAG	US-6,083,324	07/04/2000	Henley, Francois J., et al.	148	33.2	02/19/1998
JAG	US-6,096,433	08/01/2000	Kikuchi, H. , et al.	428	446	02/20/1998
JAG	US-6,127,777	10/03/2000	Watkins, Charles M., et al.	313	554	07/31/1998
JAG	US-6,136,666	10/24/2000	So, S. M.	438	458	12/30/1998
JAG	US-6,172,456	01/09/2001	Cathey, David A., et al.	313	495	04/05/1999
JAG	US-6,175,242	01/16/2001	Akram, Salman , et al.	324	755	12/20/1999
JAG	US-6,261,876	07/17/2001	Crowder, S. W., et al.	438	149	11/04/1999
JAG	US-6,309,907	10/30/2001	Forbes, Leonard , et al.	438	108	08/21/1998
JAG	US-6,328,620	12/11/2001	Hu, Y. J.	445	50	12/04/1998
JAG	US-6,351,028	02/26/2002	Akram, Salman	257	686	02/08/1999
JAG	US-6,368,938	04/09/2002	Usenko, Alexander Y.	438	407	06/07/2000
JAG	US-6,383,924	05/07/2002	Farrar, Paul A., et al.	438	667	12/13/2000
JAG	US-6,387,732	07/14/2002	Akram, Salman	438	123	06/18/1999
JAG	US-6,391,738	05/21/2002	Moore, John T.	438	402	12/20/2000
JAG	US-6,392,430	05/21/2002	Akram, Salman , et al.	324	755	11/27/2000

EXAMINER

DATE CONSIDERED January 30, 2005

Substitute Disclosure Statement Form (PTO-1449)

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional) 2 Applicant is to place a check mark here if English language Translation is attached

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Sheet 2 of 5		Attorney Docket No: 1303.102US1				

JAG	US-6,413,827	07/02/2002	Farrar, Paul A.	438	296	02/14/2000
JAG	US-6,423,613	07/23/2002	Geusic, Joseph	438	455	11/10/1998
JAG	US-6,444,534	09/03/2002	Maszara, Witold P.	438	311	01/30/2001
JAG	US-6,452,713	09/17/2002	White, Christopher A.	359	322	12/29/2000
JAG	US-6,461,933	10/08/2002	Houston, T. W.	438	423	11/08/2001
JAG	US-6,469,532	10/22/2002	Akram, Salman , et al.	324	755	02/06/2002
JAG	US-6,489,183	12/03/2002	Farnworth, Warren M.	438	112	07/20/2000
JAG	US-6,515,335	02/04/2003	Christiansen, S. H., et al.	257	347	01/04/2002
JAG	US-6,537,856	03/25/2003	Akram, Salman	438	118	10/19/2001
JAG	US-6,541,356	04/01/2003	Fogel, K. E., et al.	438	480	05/31/2001
JAG	US-6,542,682	04/01/2003	Cotterete, J. J., et al.	385	125	08/15/2001
JAG	US-6,576,993	06/10/2003	Akram, Salman	257	696	10/19/2001
JAG	US-6,579,738	06/17/2003	Farrar, Paul A., et al.	438	33	12/15/2000
JAG	US-6,583,437	06/24/2003	Mizuno, T. , et al.	257	19	03/19/2001
JAG	US-6,624,006	09/23/2003	Akram, Salman	438	118	08/06/2002
JAG	US-6,630,713	10/07/2003	Geusic, Joseph	257	347	02/25/1999
JAG	US-6,646,458	09/11/2003	Akram, Salman , et al.	324	755	08/14/2002
JAG	US-6,649,492	11/18/2003	Chu, Jack O., et al.			02/11/2002
JAG	US-6,656,782	12/02/2003	Skotnicki, T. , et al.	438	221	02/27/2002
JAG	US-6,703,293	03/09/2004	Tweet, D. J., et al.	438	518	07/11/2002

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	T ²
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OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
JAG		AUBERTON-HERVE, A. J., "SOI: Materials to Systems", <u>Digest of the International Electron Device Meeting</u> , San Francisco, (December 1996), 3-10	
JAG		BANHART, JOHN , "Manufacture, characterisation and application of cellular metals and metal foams", <u>Progress in Materials Science</u> , Volume 46, Issue 6, (2001), 559-632	
JAG		BANHART, JOHN , "On the road again: metal foams find favor", <u>Physics Today</u> , 55(7), (July 2002), 37-42	
JAG		BIRNER, A , "Macroporous silicon: a two-dimensional photonic bandgap material suitable for the near-infrared spectral range", <u>Physica Status Solidi A</u> ; 65(1), (January 16, 1998), 111-117	
JAG		BIRNER, A. , "Silicon-Based Photonic Crystals", <u>Advanced Materials</u> , 13(6), (March 2001), 377-388	
JAG		BLANCO, A , "Large-scale synthesis of a silicon photonic crystal with a complete three-dimensional bandgap near 1.5 micrometres", <u>Nature</u> , 405(6785), (May 25, 2000), 437-40	

EXAMINER

DATE CONSIDERED

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Complete if Known	
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		Filing Date	August 5, 2003
		First Named Inventor	Forbes, Leonard
		Group Art Unit	2823
		Examiner Name	Garcia, Joannie
Sheet 3 of 5		Attorney Docket No: 1303.102US1	

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
JAG		BLANFORD, C F., "Gems of Chemistry and Physics: Macroporous Metal Oxides with 3D Order", <u>Advanced Materials</u> , 13(6), (March 2001)	
JAG		CARTAGENA, E , "Bonded Etchback Silicon on Sapphire Bipolar Junction Transistors", <u>Extended Abstracts - Electrochemical Society</u> (1), Program and Abstracts: 183rd Meeting of the Electrochemical Society, Pennington, NJ, (1993), 1199-1200	
JAG		DHARMATILLEKE, S N., et al., "Anodic Bonding of Glass to Glass and Silicon to Glass or Silicon to Silicon Through a Very Thick Thermally Grown SiO ₂ Layer", <u>Proceedings of IS 3M International Symposium on Smart Structures and Microsystems</u> , http://dolphin.eng.uc.edu/projects/bonding/paper.pdf , (2000), 32	
JAG		HO, K , "Existence of a photonic gap in periodic dielectric structures", <u>Physical Review Letters</u> , 65(25), (December 17, 1990), 3152-3155	
JAG		HOLLAND, BRIAN T., "Synthesis of Macroporous Mineral with Highly Ordered Three-Dimensional Arrays of Spheroidal Voids", <u>Science</u> , 281, (July 24, 1998), 538-540	
JAG		IMTHURN, GEORGE P., et al., "Bonded Silicon-on-Sapphire Wafers and Devices", <u>Journal of Applied Physics</u> , 72(6), (September 1992), 2526-7	
JAG		JIANG, P , "The Fabrication and Bandgap Engineering of Photonic Multilayers", <u>Advanced Materials</u> , 13(6), (March 2001), 389-393	
JAG		JOANNOPOULOS, J D., "Photonic crystals : molding the flow of light", Princeton, N.J. : Princeton University Press, (1995), 6	
JAG		JOHN, S , "Photonic bandgap formation and tunability in certain self-organizing systems", <u>Journal of Lightwave Technology</u> , 17(11), (November 1999), 1931-1943	
JAG		JOHNSON, S G., "Guided modes in photonic crystal slabs", <u>Physical Review B (Condensed Matter)</u> , 60(8), (August 15, 1999), 5751-8	
JAG		JURCZAK, M , "SON (silicon on nothing)-a new device architecture for the ULSI era", <u>VLSI Technology</u> , 1999. <u>Digest of Technical Papers</u> . 1999 Symposium on, 14-16 June 1999, (June 1999), 29 -30	
JAG		LI, Z Y., "Photonic Bandgaps in Disordered Inverse-Opal Photonic Crystals", <u>Advanced Materials</u> , 13(6), (March 2001), 433-436	
JAG		LIN, SHAWN YU , "A three-dimensional optical photonic crystal", <u>Journal of Lightwave Technology</u> , 17(11), (November 1999), 1944-1947	
JAG		LONCAR, M , "Waveguiding in planar photonic crystals", <u>Applied Physics Letters</u> , 77(13), (September 25, 2000), 1937-1939	
JAG		LU, Y , "Three-Dimensional Photonic Crystals with Non-spherical Colloids as Building Blocks", <u>Advanced Materials</u> , 13(6), (March 2001), 415-420	
JAG		MANOHARAN, V N., "Photonic Crystals from Emulsion Templates", <u>Advanced Materials</u> , 13(6), (March 2001), 447-450	
JAG		MIGUEZ, H , "Synthesis and Photonic Bandgap Characterization of Polymer Inverse Opals", <u>Advanced Materials</u> , 13(6), (March 2001), 393-396	

EXAMINER *Joannie A Garcia* DATE CONSIDERED *January 3rd, 2005*

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OTHER DOCUMENTS – NON PATENT LITERATURE DOCUMENTS			
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JAG		MITSUTAKE, K , "Theoretical Study on the Formation Process of Empty Space in Silicon (ESS)", <u>2000 International Conference on Solid State Devices and Materials</u> , (2000), 198-199	
JAG		MIZUSHIMA, I. , "Empty-space-in-silicon technique for fabricating a silicon-on-nothing structure", <u>Applied Physics Letters</u> , 77(20), American Institute of Physics, NY, (November 13, 2000), 3290-3292	
JAG		NI, P , "Synthetic SiO ₂ Opals", <u>Advanced Materials</u> , 13(6), (March 2001), 437-441	
JAG		NORRIS, D J., "Chemical Approaches to Three-Dimensional Semiconductor Photonic Crystals", <u>Advanced Materials</u> , 13(6), (March 2001), 371-376	
JAG		REINHOLD PUBLISHING CO., "Comparisons of Materials: Coefficient of Thermal Expansion", <u>Reprinted with permission from "Materials Selector"</u> , Reinhold Publishing Co., Penton/IPC, http://www.handyharmancanada.com/TheBrazingBook/comparis.htm	
JAG		RENLUND, G. , "Silicon oxycarbide glasses: Part II. Structure and properties", <u>Journal of Materials Research</u> , 6(12), (December 1991), 2723-2734	
JAG		SMITH, C J., "Low-loss channel waveguides with two-dimensional photonic crystal boundaries", <u>Applied Physics Letters</u> , 77(18), (October 30, 2000), 2813-2815	
JAG		SUBRAMANIA, G , <u>Advanced Materials</u> , 13(6), Inverse Face-Centered Cubic Thin Film Photonic Crystals, (March 2001), 443-446	
JAG		SUNI, T , et al., "Effects of Plasma Activation on Hydrophilic Bonding of Si and SiO ₂ ", <u>Journal of the Electrochemical Society</u> , 149, (2002), G348-51	
JAG		SUYAL, N , et al., "A solid state ²⁹ Si and ¹³ C NMR study on the synthesis of thin silicon-oxycarbide glass sheets by a sol-gel route", <u>Journal of Materials Chemistry</u> , 9(12), (1999), 3061-3067	
JAG		SUYAL, N , et al., "Microstructural and Dielectric Characterization of Sol-Gel Derived Silicon Oxycarbide Glass Sheets", <u>Journal of Sol-Gel Science and Technology</u> , 14 (1), (1999), 113-123	
JAG		SUYAL, N , et al., "Sol-gel synthesis & microstructural characterization of silicon oxycarbide glass sheets with high fracture strength and high modulus", <u>Journal of Sol-Gel Science & Technology</u> , (1998), 995-999	
JAG		SZE, S. M., "Physics of Semiconductor Devices", <u>New York</u> , Wiley-Interscience, ISBN: 0471842907, (1969), 402-407	
JAG		TESSIER, P M., "Structured Metallic Films for Optical and Spectroscopic Applications via Colloidal Crystal Templating", <u>Advanced Materials</u> , 13(6), (March 2001), 396-400	
JAG		XIA, Y , "Photonic Crystals", <u>Advanced Materials</u> , 13(6), (March 2001), 369	
JAG		XIA, Y , "Self-Assembly Approaches to Three-Dimensional Photonic Crystals", <u>Advanced Materials</u> , 13(6), (March 2001), 409-413	

EXAMINER

Joannie Garcia

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Sheet 5 of 5		Attorney Docket No: 1303.102US1	

JAG	YABLONOVITCH, E , "Inhibited spontaneous emission in solid-state physics and electronics", <u>Physical Review Letters</u> , 58(20), (May 18, 1987), 2059-62	
JAG	YABLONOVITCH, E , "Photonic band structure: the face-centered-cubic case employing nonspherical atoms", <u>Physical Review Letters</u> , 67(17), (October 21, 1991), 2295-8	
JAG	YANG, P , "Patterning Porous Oxides within Microchannel Networks", <u>Advanced Materials</u> , 13(6), (March 2001), 427-431	

EXAMINER

DATE CONSIDERED January 3rd, 2005

Substitute Disclosure Statement Form (PTO-1449)

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